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GenCore version 5.1.6
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October 16, 2003, 23:34:11 : Search time 1733 Seconds (Without alignments) 8073:337 Million cell updates/sec 342 1 GCAGAGCTGAGGGATGTGG......CTTCAGTTAAATTATGTACA 342 5777422 Total number of hits satisfying chosen parameters: 2888711 segs, 20454813386 residues Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries OM nucleic - nucleic search, using sw model US-09-518-842-1_COPY_76_417 IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Minimum DB seq length: 0 Maximum DB seq length: 200000000 Title: Perfect score: Sequence: Scoring table: Searched: Run on:

Database :

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1: gb_ba:*

2: gb_htg:*

1: gb_om:*

1: gb_om:*

1: gb_ph:*

1: gb_oh:*

2: gb_oh:*

2: gb_oh:*

3: gb_ em_pat:* em_ph:* em_or:* em_sts:* em_un:* em_v1:* em_pl:* em_ro:* is the number of results predicted by chance to have a Pred. No.

em_htgo_hum: * em_htgo_mus: * em_htgo_other: *

em_htg_inv:* em_htg_other:*

em_htg_hum:*

em_htg_mus:*
em_htg_pln:*
em_htg_rod:*
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em_htg_vrt:*

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4 W 4 R	3 2 2 2 2		615	0 O O U	AR110202 AR071301 HUMINSH		AR11	202 Sequenc 301 Sequenc 8 Homo sapi
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31	86.89		752	9	A16593		A165	93 S. scrofa mR
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36			312	φ	100753		1001	'53 Sequence 3
37	71.8		501	ס ע	PTRLX4		2272	45 P. troglodyt
36			558	9	A17315		A063	15 H. Sapiens m
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4.2			558	9 9	27.0		1001	42 Sequence 2
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SOURCE		Unknown. Unknown. Unclassified	7					
REFERENCE AUTHORS	L D C	1 (bases Jaspers, S.		420) Sprugel	l,K.H., Ren,H.Ping	:	Humes,J.M.	and
TITLE		Methods for	or stimulati S 6114307-A	lat.	ing pancreatic 1 05-SEP-2000	islet cell		regeneration

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Sapers, S.R., Sprugel, K.H., Ren, H. Ping., Humes, J.M. and Conklin, D.C.
Methods for stimulating pancreatic islet cell regeneration Patent: US 6114307-A 3 05-SEP-2000;
Location/Qualifiers
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                                                                      100.0%; Score 342; DB 6;
100.0%; Pred. No. 1.3e-93;
vative 0; Mismatches 0;
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HUMINSH 617 bp mRNA linear PRI 20-SEP-1996 HOMO saptens early placenta insulin-like peptide EPIL (INSL4) mRNA, complete cds.
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Koman, A., Chassin, D. and Bellet, D.

Koman, A., Chassin, D. and Bellet, D.

Protein called epil/placentin, process for the preparation of this protein and pharmaceutical composition containing such, DNA coding for said Protein
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241 AAAATAATACTTTCCCGCAAAAGAGAGTGGACGTCACAGATTTGATCCATTCTGTTGT
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100.0%; Pred. No. 1.3e-93;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 617)
Chassin,D., Laurent,A., Janneau,J.L., Berger,R. and Bellet,D.
Cloning of a new member of the insulin gene superfamily (INSL4)
expressed in human placenta
Genomics 29 (2), 465-470 (1995)
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/note-"early placenta insulin-like peptide"
/codon_start-1
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Koman, Aetal.
Patent application, FR 2721033, 13-JUN-1994
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ilarity 100.0%; Pred. No. 1.3e-93;
Conservative 0; Mismatches 0;
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/dev_stage="6 weeks"
/tissue_lib="subtracted cDNA"
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Sequence 1 from Patent W09534653.
A47856 1 GI:2301742
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/protein_d="CaA03084.1"
/db_xref="G1:2301743"
/db_xref="G1:2301743"
/fb_xref="G1:2301743"
/fb_xref="G1:2301743
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Mock, P. and Bellet, D.
METHOD FOR IDENTIFYING AND LOCATING EXPRESSED EPIL PEPTIDES, CODED BY THE INCLES GENERAND THEIR USES
PATENT WO 9909172-A 1 25-FEB-1999;
MOCK PASCAL (CH); ROUGSY INST GUSTAVE (FR)
Location/Qualifiers
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/note="unnamed protein product"
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1 (bases I to 618)
Koman. A., Chassin, D. and Bellet, D.
EPIL/PLACENTINE
Patent: WO 9534653-A 1 21-DEC-1995;
ROUSSY INST GUSTAPY (FR)
Other publication FR 2721033 951215.
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                                                                                                                                                                                                                                                                                                                                              /organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
107. .526

    .618
    /organism="unidentified"

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Sequence 1 from Patent WO9909172.
A98978
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342; Conservative
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23-JAN-1998 FR 98/00715
ANN LAURENT, DOMINGUE BOOREZ
C12N15/09, A61K38/00, A61K39/395, A61K45/00, A61K4B/00,
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Catarrhini; Hominidae; Homo.
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Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 618)
Laurent,A. and Bourez,D.
Expression of the INSL4 gene in human embryonic bone tissues
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                                                      Length 618;
                                                                                                    Indels
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100.0%; Score 342; DB 6;
Best Local Similarity 100.0%; Pred. No. 1.3e-93;
Matches 342; Conservative 0; Mismatches 0;
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Expression of the INSL4 gene in human
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INSTITUT GUSTAVE ROUSSY
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/organism="Homo sapiens"
/no_type="genomic DNA"
/db_xref="taxon:9606"
a 145 c 142 g 142
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Location/Qualifiers
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JP 2002500888-A/1
15-JAN-2002
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JP 2002500888-A/1.
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Homo sapiens
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BD107918
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BD107918
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/db_xref="G1:10043813"
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SILKKILISRKRRSGRPREPPFCCEVTUDDGTSVKLCT"
142 g 142 g 142 g
                                                                                                                          /protein_id="CAB70586.1"
/db_xref="G1:6781939"
/db_xref="G1:678193
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Patent: WO 9937780-A 1 29-JUL-1999;

ROUSSY INST GUSTAVE (FR); LAURENT ANNE (FR); BELLET DOMINIQUE (FR)

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo,
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/note-"unnamed protein product"
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/db_xref="taxon:9606"
107. .526
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Sequence 1 from Patent WO9937780.
AX019983
/mol_type-"genomic DNN/db_xref-"taxon:32644"
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Matches 342
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                                                                                                /codon_start=1
/product='insulin-like 4 (placenta)"
/protein.id="AH26254.1"
/db_xref="G1:20070773"
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Patent: US 6180364-A 4 30-JAN-2001;
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Sequence 4 from patent US 6180364.
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Koman,A., Chassin,D. and Bellet,D.
       /tissue_type="Placenta"
/clone_lib="NIH_MGC_79"
/lab_host="DH10B"
                                                         /note-"Vector: pDNR-LIB'
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188 c 226 g
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BC026254 673 bp mRNA linear PRI 08-APR-2002 Homo saptens, insulin-like 4 (placenta), clone MC:22499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cDNA Library Preparation: CLONTECH Laboratories, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (Linl)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
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Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and Myers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (02-APR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                             1 GCAGAGCTGAGGGGATGTGGTCCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG
                                                                                                  121 GAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATTC
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     Length 618;
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/mol_type-"mRNA"
/db_xref-"Locus1611"
/db_xref-"taxon:9606"
/clone-"MGC:22499 IMAGE:4770395"
 100.0%; Score 342; DB 6;
100.0%; Pred. No. 1.3e-93;
.ive 0; Mismatches 0;
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONTECH
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Strausberg, R.
Query Match
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PAT 18-FEB-2000
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Koman, A., Chassin, D. and Bellet, D.

Fortein called epil/placentin, process for the preparation of this protein and pharmaceutical composition containing such, DNA coding for said protein

Patent: US 6180364-A 1 30-JAN-2001;
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Pred. No. 4.2e-93;
0; Mismatches 1
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Koman, A., Chassin, D. and Bellet, D.
Protein called epil/placentin, process
protein and pharmaceutical composition
for said Protein
Patent: US 5910480-A 1 08-JUN-1999;
Location/Qualifiers
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                  615 bp
Sequence 1 from patent US 5910480.
AR071299
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Sequence 1 from patent US 6180364
AR126780 GI:14113373
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143 c 143 a
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143 c 143 g
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                     ATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAGCCATCATTGAAG
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         CCTGAGAAGACATTCACCACCACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA
                                                         GAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATTC
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Koman, A., Chassin, D. and Bellet, D.
Protein called EPIL/placentin, process
protein and pharmaceutical composition
                                                                                                                                                                                                                                                                                   NA
NA
                                                                                                                                                                                                                                                                                                                                                                                                                       for said protein
Patent: US 6362318-A 4 26-MAR-2002;
Location/Qualiflers
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                                                                                                                                                                                                                                                                               AR202438 934 bp
Sequence 4 from patent US 6362318.
AR202438 GI:20256977
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188 c 226 q
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Unclassified.
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AR202438
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-- Washington University/Merck EST sequence.
Location/Qualifiers
   421 aaaataatacttcccgcaaaagagaagtggacgtcacagattgatccattctgttgt 480
                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 482)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 GCAGAGCTGAGGGGATGTGGTCCCC---GATTTGGAAAACACTTGCTGTC---ATATTGC
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                                                                                                                                                                                                                                                                                                                                                                                                    Stanford University School of Medicine
Department of Genetics, M-344, Stanford, CA 94305,
Tel: 4157259687
Fax: 4157259689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
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                                                    301 GAAGTAATTTGTGACGATGGAACTTCAGTTAAATTATGTACA 342
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STS: STS sequence: primer; sequence tagged site
Homo sapiens (human)
Homo sapiens (human)
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                                                                                                                                                  482 bp DNA
human STS SHGC-34067, sequence tagged site.
G27877
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each 1 uM
each 200 uM
0.05 units/ul
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Primer B: AAAGAGAAGTGGACGTCACAG
STS Size: 150
PCR Profile:
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/organism="Homo sapiens"
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/db_xref="taxon:9606"
/map="9"
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50 mM
20 mM
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99 c 121 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: myers@shgc.stanford.edu
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                                                                                                                                                                                                                                                                                                                                                                     Contact: Richard M. Myers
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Polymerization:
PCR Cycles:
Thermal Cycler:
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Total Vol:
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Patent: US 636218-A 1 26-MAR-2002;
Location/Qualifiers
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   6; Length 615;
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Score 340.4; DB 6;
Pred. No. 4.2e-93;
0; Mismatches 1;
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Sequence 1 from patent US 6362318.
AR202437
AR202437.1 GI:20256976
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Koman, A., Chassin, D. and Bellet, D.
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143 c 143 g
Query Match 99.5%;
Best Local Similarity 99.7%;
Matches 341; Conservative
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Best Local Similarity 99.7'
Matches 341; Conservative
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Search completed: October 17, 2003, 02:21:35 Job time : 1737 secs

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October 16, 2003, 23:31:46; Search time 206 Seconds (without alignments) 4481.591 Million cell updates/sec
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// SIDSI/yogdata/genesequi embl./NA1992.DAT:
// SIDSI/yogdata/geneseq/genesequi embl./NA1993.DAT:
// SIDSI/yogdata/geneseq/genesequi embl./NA1994.DAT:
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1 GCAGAGCTGAGGGCATGTGG.......CTTCAGTTAAATTATGTACA 342
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                           Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	G	ing seque	lly tagge	ly placen	ulin-like	ulin-like	axin-rela	ncoding	ncoding
	Description	Zinsl codin	N-termina	Human early placen	Human ins	Human ins	Human rel	Sequence encoding	Sequence encoding
	QI	AAV44663	AAV44664	AAT10275	AAX83561	AAX27490	AAT68419	AAN30186	AAN30196
	ЭВ	19	19	17	20	20	18	4	4
	Match Length DB ID		480	618	618	618	649	752	752
on O	Match	100.0	100.0	100.0	100.0	100.0	100.0	24.8	24.8
	Score	342	342	342	342	342	342	84.8	84.8
Result	%	-	7	m	4	'n	9	7	80

DNA encoding novel Bunan prostate exp H2 prorelaxin gene H2 prorelaxin gene Sequence encoding mRNA sequence of h Not I-Bam HI fragm Human prostate exp	MMENTS pancreatic islet cell proliferation; y; ds. ', Jaspers SR, Ren HP;
AASG 9640 AAST 3158 AAOO 6595 AAOO 6595 AAAO 6686 AAN 40086 AAN 22244 ABV 22226 ABV 22286 ABV 22386 ABV 22333 ABV 22333	ALIG BP. BP. therap
	71 88 9 7
23 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ent ent of
	standard; cD; 998 (first eding sequence when; placent secretion; dilens. 0-Al. 998; 97WO-U 996; 96US-O 2YMOGENETICS DC, Hoffmann KH; 8-362779/31.
4	3 standard; 3; 1998 (first coding sequen human; place serretion; pplens. 10-A1. 1998; 96US 2YMOGENETIC CDC, HOFfma KH; 98-362779/31
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υ υ	88

us-09-518-842-1_copy_76_417.rng

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This sequence encodes the human Zinsi protein of the invention. The Zinsi protein was isolated form human placenta, and is believed to be a new version of the mature protein of placentin, having disulphide bonded A and B chains. The protein can be used for stimulating the proliferation of pencreatic islets to increase insulin secretory capacity of mammals. In particular it can be used for the treatment of diabetes it can also be used for stimulating in vitro proliferation of pencreatic islet cells. It can also be used for production of antibodies and in detection and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAAATGGTGTCAACCTCCAACAACAAAGATGGACAAGCCTTAGGTACGACATCAGAATTC 180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        placentin; pancreatic islet cell proliferation;
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                                                                                                                                                                                                                                                                    Length 420;
 from human placenta,
         increases the proliferation of pancreatic islet cells, used treating diabetes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seguence 420 BP; 124 A; 100 C; 98 G; 98 T; 0 other;
                                                                                                                                                                                                                                                                    100.0%; Score 342; DB 19; 100.0%; Pred. No. 9.2e-101;
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                                                                                                                                                                                                                                                                                                0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        insulin secretion; diabetes; therapy; ds
 obtained
                                                           Claim 1; Page 60-61; 77pp; English
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New isolated protein, Zinsl -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV44664 standard; cDNA; 480
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                                                                                                                                                                                                                                                                                  Best Local Similarity 100.
Matches 342; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ZYMO ) ZYMOGENETICS INC
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                                                                                                                                                                                                            diagnosis.
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                                                                                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                 This sequence encodes a N-terminally tagged version of the human Zinsi protein of the invention. The Zinsi protein was isolated form human placenta, and is believed to be a new version of the mature protein of placentin, having disulphine bonded A and B chains. The protein can be used for stimulating the proliferation of pancreatic islets to increase insulin secretory capacity of mammals. In particular it can be used for the treatment of diabetes. It can also be used for stimulating in vitro proliferation of pancreatic islet cells. It can also be used for production of antibodies and in detection and diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Insulin growth hormone family; early placental insulin like protein; placentin; placental tissue; cytotrophoblast; trimester; probe; primer; amplification; polymerase chain reaction; tyrosine phosphorylation; cellular protein; growth factor; human; lactation; promoter; PCR; regeneration; nerve; muscle; skin; bone tissue; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG
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                                                                                                                                                                                                                                                                                                                                                                                     Match 100.0%; Score 342; DB 19; Length 480; Local Similarity 100.0%; Pred. No. 9.8e-101; les 342; Conservative 0; Mismatches 0; Indels 0
                                                                                  New isolated protein, Zins1 - obtained from human placenta, increases the proliferation of pancreatic islet cells, used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 480 BP; 136 A; 114 C; 121 G; 109 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human early placental insulin-like protein gene.
                                                                                                                                                Example 1; Page 62-63; 77pp; English
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107..526
/*tag= a
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                                WPI; 1998-362779/31
P-PSDB; AAW69170.
                                                                                                                  treating diabetes
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Sprugel KH
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AAX83561

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AAAATAATTCTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 growth hormone family designated early placental insulin like (EPIL) protein or placentin. The gene has been found to be expressed exclusively in the early placental issue with a small amount in full term placental issue with a small amount in full term placental issue with a small amount in full expenses that gene. No other issue expresses this gene. The gene was obtained from a CDNA library derived from mRNA isolated from exprotrophoblasts derived from first trimester placental issue using, as a probe, a fragment of the gene amplified by primers AAT10276-7. Although the specific activity of the protein remains to be elucidated, it is thought that the protein will induce tyrosine phosphorylation of cellular proteins and may have growth factor-like activities e.g. human growth factor type I or lactation promoter activities. It may also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This is the nucleotide sequence encoding a novel member of the insulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           182 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG
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                                                                                                                                                                                                                                                                                                                                                                                                                             or
                                                                                                                                                                                                                                                                                                                                                                                                     Barly placental insulin-like protein, EPIL/placentin - contains growth factor-like activity useful for e.g. promoting lactation for regeneration of nerve, muscle, skin or bone tissue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 342; DB 17; Length 618; larity 100.0%; Pred. No. 1.1e-100; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    used to regenerate e.g. nerve, muscle, skin or bone tissue.
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  'product- EPIL/placentin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 14-15; 25pp; French
                                                                                                                                                                                                                                                                                                             Koman A;
                                                                                                                                                                                                                                                                      (INSR ) INST ROUSSY GUSTAVE
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                                        Ω
                  107..157
/*tag= b
158..523
/*tag= c
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                                                                                                                                                                                                                                                                                                                                               WPI; 1996-049682/05.
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Matches 342; Conserv
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                                                                                                                                                                                                                                13-JUN-1994;
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This sequence represents the human insulin-like 4 gene (INSL4) which is expressed in human embryonic bone tissue and ligaments. The 139 amino acids protein encoded by the gene is designated early-placental insulin-like (EPIL) protein. The INSL4 gene encodes 3 different EPIL proteins designated EPIL 1, 2 or 3. EPIL 1 is a single chain comprising amino acids 18-139, EPIL 2 is a 2 chain protein with chain A comprising amino acids 18-139 and chain B comprising amino acids 18-139 and chain B comprising amino acids 18-58 and EPIL 3 is a single chain comprising amino acids 59-114. The nucleic acids and protein or antibodies against EPIL 1, 2 or 3, and probes or primers for INSL4 are useful for the diagnosis of pathology associated with abnormal differentiation and/or proliferation of bone tissue or ligaments or development of abnormal cartilage and/or abnormal ossification of forming bones, e.g. osteoporosis or apa/or proliferation of bone tissue and/or proliferation of bone tissue and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 GAAAIGGIGICAACCICCAACAACAAGAIGGACAAGCCIIAGGIACGACAICAGAAIIC 180
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                                                                                                                                         Human; insulin-like 4; INSL4; embryonic; bone tissue; ligament;
early-placental insulin-like protein; EPIL; antibody; probe; primer;
diagnosis; pathology; differentiation; proliferation; cartilage;
ossification; osteoporosis; dysplasia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Expression of the INSL4 gene in human embryonic bone tissue and
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0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ligament cells are also useful in treating bone disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 618 BP; 189 A; 145 C; 142 G; 142 T; 0 other;
                                                                                                                                                                                                                                                                                                                                             /note= "insulin-like 4 protein"
                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                        Human insulin-like 4 cDNA sequence.
BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Fig 1; 60pp; French.
AAX83561 standard; cDNA; 618
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/product-
                                                                    (first entry)
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                                                                                                                                                                                                                                                                                        ..526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Laurent A, Bellet D;
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Best Local Similarity
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                                                                                                                                                                                                                                      Homo sapiens
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                                    AAX83561;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represent the INSL-4 (insulin-like gene 4) gene encoding an EPIL (eatly placental insulin-like) polypeptide. The polypeptide, vectors containing the coding sequence and probes derived from the coding sequence, can be used to treat tumours, preferably angioproliferative tumours, especially Raposi's sarcoma, tumours of the pancreas, liver, uterus or breast, angiosarcomas, glioblastomas, neuroblastomas, relabdomyosarcomas or lelomyosarcomas, to promote vascularisation of specific tissues; to treat retinopathy, macular degeneration, psoriasis, endometriosis, rheumatoid arthritis, macular degeneration of sherific tissues; to premote or hyperthyroidism; to treat post-angioplastic restenosis; to promote or inhibit embryo implantation; to prevent and/or treat disorders directly or indirectly connected with insulin-like activity; to prevent and/or treat disorders directly or indirectly
                                  240
                                                                            241 AAAATAATACTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT 300
                                             INSL-4; insulin-like gene; EPIL; early placental insulin-like; antibody;
vector; probe; hybridisation; tumour; hypoglycaemia; hyperglycaemia;
diabetes; cardiovascular; ss.
                               181 ATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAGCCATCATTGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EPIL polypeptides encoded by insulin-like gene 4 - and corresponding nucleic acids, antibodies, probes, primers, etc.
                                                                                                                                                                                                                                                                                                                                                                                                    /product="BPIL"
/note="early placental insulin-like peptide""
                                                                                                                        GAAGTAATTGTGACGATGGAACTTCAGTTAAATTATGTACA 342
                                                                                                                                            482 GAAGTAATITGIGACGAIGGAACTICAGITAAATIAIGTACA 523
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/*tag= a
/gene= "Insl-4"
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97FR-0010387
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                                                                                                                                                                                                                                                                   Human insulin-like gene 4.
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14-AUG-1997;
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                                                                                                                                                                                                                                                             GARATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATTC 180
                                                                                                                                                                                                                                                                                                                            241 AAAATAATACTTTCCCGCAAAAAGAAGAGGGCGTCACAGATTTGATCCATTCTGTTGT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                           09
connected with a dysfunction in carbohydrate metabolism, especially connected with hypo glycaemia or hyperglycaemia, especially gestational diabetes and diabetic complications, especially cardiovascular
                                                                                                                                                                           Gaps
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                                                                                                                 Length 618;
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                                                                                                                                              Indels
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                                                                                                           Query Match
100.0%; Score 342; DB 20;
Best Local Similarity 100.0%; Pred. No. 1.1e-100;
Matches 342; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human relaxin-related factor-2 (RRF-2) cDNA.
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104..523
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950S-0006221.
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182..520
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P-PSDB; AAW17676.
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03-NOV-1995;
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12-FEB-1982;
11-FEB-1983;
                       misc_feature
                                                          misc_feature
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25-MAY-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C RRF-2) (AMJ676), a placenta-specific growth factor related to relaxin and to the insulin family of ligands. A search of a database of expressed sequence tags revealed the existence of a sequence, in human placenta, showing faint homology to relaxin. Oligonucleotides corresponding to the database sequence were used to probe a human placenta chowing faint homology to relaxin. Oligonucleotides corresponding to the database sequence were used to probe a human placenta colonal included the expected features of an insulin family member and was the expected features of an insulin family member and was classing also been isolated. The isolated clone, RRF-1 (AMJ68418), has also been isolated. The isolated clone can be used to produce RRF-2 tree of other proteins using host-vector systems. RRF-2 may be useful for modulating the reproductive physiology of mammals current and parturition.
                                                                                                                                                                                                                                                                                                                                       239 CCTGAGAAGACATTCACCACCACCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA 298
                                                                                                                                                                                                                                                                                                                                                                                                                                    181 ATTCCTAATTTGTCACCAGAGCTGAAGAACCACTGTCTGAAGGGCAGCCATCATTGAAG 240
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                                                                                                                                                                                                                                                                                                                                                                                                                      121 GAAATGGTGTCAACCTCCAACAAAAAATGGACAAGCCTTAGGTACGACATCAGAATTC 180
                                                                                                                                                                                                                                                                                                                            1 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG
           New isolated relaxin-related factor genes - used to develop products which can be used in diagnosis and therapy, e.g. in fertility and
                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                             Query Match 100.0%; Score 342; DB 18; Length 649; Best Local Similarity 100.0%; Pred. No. 1.1e-100; Matches 342; Conservative 0; Mismatches 0; Indels 0.
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/*tag= a
/label= Claim 7
73..168
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                                                       Claim 20; Fig 4; 34pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (updated)
(first entry)
                                  pregnancy applications
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25-MAY-1992
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49 TATTGCCCCATGCCTGAGAGACATTCACCACCCCCAGGAGGGTGGCTGCTGGAATCT 108
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               169 ACATCAGAATTCATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAG 228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The inventors claim synthetic porcine preprorelaxin and prorelaxin and synthetic A, B and C peptide chains of prolaxin, and a gene-for expression of porcine preprorelaxin or prorelaxin, and their sub-units (see AAN30186). They also claim a double-stranded DNA fragment for the expression of the signal peptide chain of porcine preprorelaxin comprising a coding strand and a complementary strand corresp. to a defined mRNA sequence (see AAN30187-N30194) which corresp. to the most homologous regions between the pig and rat cDNA sequences. A probe (AAN30195) is also claimed. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genes and DNA transfer vectors for prorelaxin expression - useful
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24.8%; Score 84.8; DB 4; Length 752;
Best Local Similarity 49.5%; Pred. No. 3.9e-17;
Matches 107; Conservative 27; Mismatches 82; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in prodn. of porcine relaxin for veterinary and human use
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/label- Claim 10
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/*tag= b
/label= Claim 9
73..546
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/label= Claim 5
169.480
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(first entry)
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Key

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Human; chromosome mapping; gene mapping; gene therapy; forensic; tood supplement; medical imaging; diagnostic; genetic disorder; ss.
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                                                                                   ONA encoding novel human diagnostic protein #5444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID No 5444; 103pp; English.
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2000US-0649167
                        13-FEB-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HYSE-) HYSEQ INC
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23-AUG-2000;
                                                                                                                                                                                                                                 Homo sapiens
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Best Local S
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NAMES OF COLUMN 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           49 TATTGCCCCATGCCTGAGAAGACATTCACCACCACCAGGAGGGTGGCTGCTGGAATCT 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     136 UGUGGCUCCGUCUCCUGGGGAAGAACUGCUCAGCCUGGAAGAGCCUCAGCUGGAAACU 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                109 GGACGTCCCAAAGAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACG 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               169 ACATCAGAATTCATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAG 228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The inventors claim synthetic porcine preprorelaxin and prorelaxin and synthetic A, B and C peptide chains of prolaxin, and a gene for expression of porcine preprorelaxin or prorelaxin, and their sub-units (see AAN30186). They also claim a double-stranded DNA fragment for the expression of the signal peptide chain of porcine preprorelaxin comprising a coding strand and a complementary strand corresp. to a defined mRNA sequence (see AAN30187-N30194) which corresp. to the most homologous regions between the pig and rat cDNA sequences. A probe (AAN30195) is also claimed. (Updated on 25-WAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genes and DNA transfer vectors for prorelaxin expression - useful in prodn. of porcine relaxin for veterinary and human use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 752 BP; 247 A; 143 C; 151 G; 211 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCATCATTGAAGAAATAATACTTTCCCGCAAAAG 264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Shine J;
                        Sequence encoding porcine preprorelaxin.
                                                                                                                                                                                                  Location/Qualifiers
1..549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Niall HD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAS69640 standard; cDNA; 2364 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Flg 5; 50pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82AU-0002695
83AU-0011834
                                                                                                                                                                                                                                                                                                                                                                                                                                   83EP-0300714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (FLOR-) FLOREY INST EXP PHY (FLOR-) FLOREY HOWARD INST.
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                                                                                                                                                                                                                                                             /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hudson PJ, Haley JD,
                                                                                Relaxin; hormone; ss.
                                                                                                                                          Sus scrofa domestica.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1983-748587/35.
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Best Local Similarity
Matches 107; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P-PSDB; AAP30392
                                                                                                                                                                                                                                                                                                                                                                                                                                   11-FEB-1983;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-FEB-1982;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-FEB-1983;
                                                                                                                                                                                                                                                                                                                                                                            24 - AUG - 1983
                                                                                                                                                                                                                                                                                                                    EP86649-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 9
AAS69640/c
ID AAS696
XX
AC AAS696
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical insorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in the polypeptide and polynucleotide sequences have applications in and to produce other types of data and products dependent on DNA and and to produce other types of data and products dependent on DNA and amino acid sequences. AASé4197-AAS94564 represent novel human of sequences are as of the invention.

Specification, but was obtained in electronic format directly from WIPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       117 CAAAGAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23; Length 2364;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 2364 BP; 861 A; 537 C; 439 G; 527 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23.8%; Score 81.4; DB 23 74.1%; Pred. No. 8.1e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
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AAS69640;

Page 7

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The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for:
(a) assessing whether a patient is afflicted with prostate cancer;
(b) monitoring the progression of prostate cancer in a patient;
(c) assessing the efficacy of a test compound to inhibit prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       82 ACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAAGAAATGGTGTCAACCTCCAAC 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cell carcinogenic potential of a compound; (g) determining whether prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a
                                                                                                                                                                                                                                                                                                             Human; prostate cancer; cytostatic; carcinogen; pharmacodyanamic marker;
pharmacogenomic marker; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer in a patient; (d) assessing the efficacy of a therapy for inhibiting prostate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       I) is also useful as a pharmacodyanamic or pharmacogenomic marker.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21.0%; Score 71.8; DB 23; Length 475; 66.5%; Pred. No. 5.2e-13; 1ve 0; Mismatches 52; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 475 BP; 121 A; 123 C; 117 G; 114 T; 0 other;
                                                                                                                                                                                                                                                                           Human prostate expression marker cDNA 42723.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 8544; 11750pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Monahan JE;
                                                       231 GAGAAAGGTACTACTTTCC 213
                                                                                                                                                             ABV42732 standard; cDNA; 475 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-189862P.
2000US-207454P.
2000US-211314P.
2000US-219007P.
2000US-255281P.
                                  237 GAAGAAATAATACTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-FEB-2001; 2001WO-US05171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20000S-183319P.
                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Schlegel R, Endege WO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-662795/76.
                                                                                                                                                                                                                                                                                                                                                                                                      WO200160860-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-MAY-2000;
09-JUN-2000;
18-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in a patient;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-FEB-2000;
                                                                                                                                                                                                                                      16-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                          23-AUG-2001.
                                                                                                                                                                                                  ABV42732;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        patient
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The cand gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques for identifying expressed genes. (I) is useful in gene therapy techniques correstors ormal activity of (II) or to treat disease states involving quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical impolypeptide and polynucleotide sequences have applications in the polypeptide and polynucleotide sequences have applications in capponsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amphoratic coding sequences of the invention.

Second sequence atta for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        177 ATTCATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAGCCATCATT 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                  Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 23.8%; Score 81.4; DB 23; Length 2364; Similarity 74.1%; Pred. No. 8.1e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              36; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 2364 BP; 861 A; 537 C; 439 G; 527 T; 0 other;
                                                                                                                                                             DNA encoding novel human diagnostic protein #8962.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; SEQ ID No 8962; 103pp; English.
                                                   AAS73158 standard; cDNA; 2364 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tang YT;
                                                                                                                                                                                                                                                                                                                                                                                                    31-MAR-2000; 2000US-0540217.23-AUG-2000; 2000US-0649167.
                                                                                                                                                                                                                                                                                                                                                                 30-MAR-2001; 2001WO-US08631
                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            103; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Drmanac RT, Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-639362/73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P-PSDB; ABG08971
                                                                                                                                                                                                                                                                                      WO200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              biodiversity
                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                         13-FEB-2002
                                                                                                                                                                                                                                                                                                                             11-OCT-2001
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Best Local 8
                                                                                      AAS73158;
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             RESULT 10
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aaq06596
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           162 AACAAAGATACAGAAACCATAAATATGATGTCAGAATTTGTTGCTGAATTTGCCACAGAG 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The plasmid was prepd. from a clone isolated from a cDNA library prope. Irom RNA isolated from human corpus luteum, screened with an H-cDNA probe. I fragment encoding the N-terminal of PR was isolated and was ligated with a 410 bp fragment encoding AAS 17-153 of lated and was ligated with a 410 bp fragment encoding AAS 17-153 of PR, and a fragment from pHGH2071*L (including the Trp promoter, AAS 1-137 of metHGM, and amp and tet resistance. A portion of the cresulting construction (pFBPTCH2) was ligated with a fragment from the original clone encoding the PR C-terminal, and a fragment from the original clone encoding the PR C-terminal, and a fragment from the original clone encoding the PR C-terminal, and a fragment from the original clone encoding the PR C-terminal, and a fragment from the original clone encoding the gene and signal sequence was the plasmed preperored. A StII signal sequence was then fused to the PR gene and a portion including the gene and signal sequence was ligated been removed. The resulting construction, pripstIPFOREL was treated to remove the StII sequence and the first 11 AAS of H2 PR. This was replaced with a synthetic DNA duplex encoding the first 12 AAS of H2 PR (including ASPI), to produce pTreproRelASP, the cooling part of which is shown below. The plasmid can be used
polypeptide into polypeptide cleavage prods. - by free-cysteine form of polypeptide at desired junction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 71.8; DB 11; Length 489;
Pred. No. 5.3e-13;
0; Mismatches 52; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 489 BP; 156 A; 104 C; 103 G; 126 T; 0 other;
                                                                                                                                                                                                                         prorelaxin gene insert in plasmid pTrpProRelAsp.
                                                   CTGAAGAACCACTGTCTGAAGGGCAGCCATCATT 236
                                                                 222 CTGAAGTTAACCCTGTCTGAGATGCAGCCAGCATT 256
                                                                                                                                                                                                                                                                                                                                                                                                                                        Yansura D;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Wikins JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Fig 2A; 56pp; English.
                                                                                                                                             AAQ06595 standard; DNA; 489 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21.0%;
66.5%;
                                                                                                                                                                                                                                                                                                                                                                                    890S-0347550
                                                                                                                                                                                                                                                                                                                                                           90WO-US02085
                                                                                                                                                                                                27-FEB-1991 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                       denner DJ, Vandlen RI,
                                                                                                                                                                                                                                                                                                                                                                                                             (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1990-361494/48.
P-PSDB; AAR07987.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               acid cleavage sites
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           See also AAQ06596
                                                                                                                                                                                                                                                    Relaxin; PR; ds
                                                                                                                                                                                                                                                                                                                                                          16-APR-1990;
                                                                                                                                                                                                                                                                                                                                                                                    04-MAY-1989;
                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                         WO9013659-A
                                                                                                                                                                                                                                                                                                                                 15-NOV-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cleaving treating
142
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AAQ06595
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The plasmid was prepd. from three plasmids, the parental plasmid, plasmid was prepd. Grow details), and pTR390 and pTR400-20. Plasmid pTR390-7 was designed to introduce an Asp codon in the met-PR gene between the end of the B-chain coding region and the start of the C-chain encoding DNA. Plasmid pTR400-20 was designed to thirrdouce an Asp codon in the met-PR gene between the end of the C-chain encoding DNA. Plasmid pTR400-10 was designed to chain (Argi37) and the beginning of the A-chain (Gln138) encoding regions. Plasmid pTR411 was constructed by ligating together the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (b) a fragment from pTR390-7 contg. codons for AAs19-97, with an addnl. Asp codon between AAs 33 and 34; and codons fragment from pTR400-20 contg. codons 99-155 of met-PR, with an extra Asp between codons 137 and 138. The plasmid can be used to construct vectors that encode Asp-inserted H2PR with enhanced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (a) pTrpProRelAsp from which the 410 bp BssHII-BglII fragment was removed (it therefore contained codons for AAs 1-8 and 156-161 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cleaving polypeptide into polypeptide cleavage prods. - by treating free-cysteine form of polypeptide at desired junction.
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Pred. No. 5.3e-13;
0; Mismatches 52; Indels 0;
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                                                                                        CTGAAGAAACCACTGTCTGAAGGGCAGCCATCATT 236
                                                                                                                        223 CTGAAGTTAACCCTGTCTGAGATGCAGCCAGCATT 257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Yansura D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               H2 prorelaxin gene insert in plasmid pTR411.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wikins JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Fig 2A; 56pp; English.
                                                                                                                                                                                                                                                                                                AAQ06596 standard; DNA; 495 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21.0%;
66.5%;
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Matches 103; Conservative
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See also AAQ06595.
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Gaps ö 82 ACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAAGAAATGGTGTCAACCTCCAAC 141

Best Local Similarity 66.5 Matches 103; Conservative

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Relaxin; H2-relaxin; pubic symphysis.
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                                                                                                                                                                                                                                                                                                                       Hudson PJ, Tregear GW, Niall HD;
                                                                                                                     BP
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                                                                                                                                                               (first entry)
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21-JUN-1990
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         142 AACAAAGAIGGACAAGCCTIAGGIACGACAICAGAAIICAIICCIAAIIIGICACCAGAG 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The inventors claim a ds DNA SQ which comprises a coding strand and a complementary strand corresp. to (AAN40086) and its subunits. Also claimed are synthetic human H2-preprorelaxin, human H2-prorelaxin and human H2-relaxin together with their analogues having shortened A or B chains, or modified to contain different AA residues. (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gene for expression of human H2-preprorelaxin - useful as vector
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 558 BP; 169 A; 121 C; 117 G; 151 U; 0 other;
                                                                                                                                                                       Relaxin; hormone; probe; uterine contraction; ss.
                                           202 CTGAAGAACCACTGTCTGAAGGGCAGCCATCATT 236
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                                                                                                                                                                                                                                                                                                                                                                                                       (FLOR-) FLOREY INST EXPERIMENTAL PHYSIOLOGY
                                                                                                                                                      Sequence encoding human preprorelaxin H2
                                                                                                                                                                                                                                                        Location/Qualifiers
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                                                                                                                                                                                                                                                  /product- B-chain
172..483
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                                                                                                                                                                                                                                                                                                                                                                    82AU-0007247.
83AU-0022283.
88EP-0110103.
                                                                                         AAN40086 standard; mRNA; 558
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73..171
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                                                                                                                           25-MAR-2003
04-FEB-1992
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01-JAN-1988;
                                                                                                                                                                                                                 sig_peptide
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                                                                                                          AAN40086;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        82 ACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAAGAAATGGTGTCAACCTCCAAC 141
                        ACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAAGAAATGGTGTCAACCTCCAAC 141
                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // Match 21.0%; Score 71.8; DB 10; Length 558; Local Similarity 52.3%; Pred. No. 5.6e-13; hes 81; Conservative 22; Mismatches 52; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 558 BP; 169 A; 122 C; 116 G; 151 U; 0 other;
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                                                                                                                                                                                CTGAAGAAACCACTGTCTGAAGGGCAGCCATCATT 236
                                                                                                                                                                                                         (FLOR-) FLOREY INST EXPERIMENTAL PHYSIOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mRNA sequence of human preprorelaxin H2.
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Matches 81; Conserv
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Search completed: October 17, 2003, 01:52:32 Job time : 207 secs

Sequence Seq

Sequence 1 Sequence 1 Sequence 2

Sequence Sequence Sequence Sequence

Sequence Sequence Sequence Sequence

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GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Jaspers, Stephen R.
APPLICANT: Sprugel, Katherine H.
APPLICANT: Humes, Jacqueline M.
APPLICANT: Humes, Jacqueline M.
APPLICANT: Conklin, Darrell C.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: STIMULATING PANCREATIC ISLET CELL REGENERATION
NUMBER OF SEQUENCES:
APPLICANT: CONFESS:
APPLICANT: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: STIMULATING PANCREATIC ISLET CELL REGENERATION
CONFESSIONERS:
APPLICANT: CONFESS:
APPLI
US-08-483-639-1

US-08-468-036-23

US-08-961-527-97

US-08-961-527-97

US-08-71-1488-7

US-08-71-1488-7

US-09-511-881A-11

US-08-820-170A-29

US-09-55-659-29

US-09-56-538-29

US-09-56-55-529

US-09-56-58-29

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US-09-976-165-38
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IP: 98102
COMPUTER READABLE FORM:
COMPUTER: Diskette
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastsED for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/991,890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
CTTY: Seattle
STATE: WA
COUNTRY: USA
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CLASSIFICATION:
PRIOR APPLICATION:
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
FILING DATE: December 16, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Sawislak, Deborah A
REGISTRATION NUMBER: 37,438
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1, Application US/08991890 Patent No. 6114307
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TYPE: nucleic acid
STRANDEDNESS: double
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MOLECULE TYPE: CDNA
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                                                                                                                                                               October 17, 2003, 01:37:56 ; Search time 52 Seconds (Without alignments) 2902.943 Million cell updates/sec
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                                                                                                                                                                                                                                                                  US-09-518-842-1_COPY_76_417
342
1 GCAGAGCTGAGGGATGTGG.......CTTCAGTTAAATTATGTACA 342
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//cgn2_6/ptodata/1/ina/5A_COMB.seq:*

//cgn2_6/ptodata/1/ina/5B_COMB.seq:*

//cgn2_6/ptodata/1/ina/6A_COMB.seq:*

//cgn2_6/ptodata/1/ina/Ba_COMB.seq:*

//cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

//cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

//cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
                     GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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PCT-US94-06997-11
US-09-352-616A-465
US-09-142-529-2
US-09-142-529-2
US-09-188-512-3
US-09-681-638-123
US-09-008-697A-7
US-09-008-697A-7
US-09-008-697A-7
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US-09-114-4650-4
US-09-19-5648-4
US-08-174-4650-1
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US-09-174-4650-7
US-09-174-4650-7
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US-09-174-4650-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                            569978 seqs, 220691566 residues
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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                 IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 2000000000
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Match 1
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TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
                                                                                                                                                                      NAME/KEY: Coding:
COCATION: 1...477
COTHER INFORMATION:
US-08-991-890-3
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US-08-482-842B-3
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                                                                                                                                                                                                                                                                                                           Gaps
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APPLICANT: Jaspers, Stephen R.,
APPLICANT: Sprugel, Katherine H.
APPLICANT: Sprugel, Katherine H.
APPLICANT: Ren, Hong Ping
APPLICANT: Hoffman, Ross C.
APPLICANT: Hoffman, Ross C.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: STIMULATING PANCREATIC ISLET CELL REGENERATION NUMBER OF SOURCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
                                                                                                                      ö
                                                                                 Query Match 100.0%; Score 342; DB 3; Length 420; Best Local Similarity 100.0%; Pred. No. 1.7e-101; Matches 342; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   376 GAAGTAATTTGTGACGATGGAACTTCAGTTAAATTATGTACA 417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/991,890
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/033,003
FILING DATE: December 16, 1996
ATTORNEY/AGENT INFORMATION:
NAME: SAWISLAK, Deborah A
REGISTRATION NUMBER: 96-41
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : Sequence 3, Application US/08991890
; Patent No. 6114307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
US-08-991-890-1
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                                                                                     Query Match
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Sequence 3, Application US/08482842B
Patent No. 5910480
GENERAL INFORMATION:
APPLICANT: CHASSIN, Dorine
APPLICANT: CHASSIN, Dorine
APPLICANT: BELIET, Dominate
ITILE OF INVENTION: NEW PROTEIN CALLED EPIL/PLACENTIN,
ITILE OF INVENTION: PHARMACEDITICAL COMPOSITION CONTAINING SUCH, DNA CODING FOR
ITILE OF INVENTION: SAID PROTEIN
ITILE OF INVENTION: SAID PROTEIN
UNMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                        GAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATTC 180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 AAAATAATACTITCCCGCAAAAAGAGAAGTGGACGTCACAGAITTGATCCATTCTGTTGT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 CCTGAGAAGACATTCACCACCACCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG
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                                                                                                                                                                                                                                                                                        Length 480;
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION WHERE: 05/08/482,842B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                      100.0%; Score 342; DB 3; I 100.0%; Pred. No. 1.8e-101; tive 0; Mismatches 0;
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CITY: Alexandria STATE: Vire: V.
                                                                                                                                                                                  Sequence
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: Virginia COUNTRY: United States
                                                                                                                                                                                                                                                                                                           Best Local Similarity 100.
Matches 342; Conservative
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COMPUTER READABLE FORM:
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GENERAL INFORMATION:
APPLICANT: KOMAN, Abment
APPLICANT: CHASIN, DOTIONE
TITLE OF INVENTION: NEW PROTEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE
TITLE OF INVENTION: PROPEIN
TITLE OF INVENTION: PROTEIN
FILE REPERBRACE: 107753-127
CURRENT APPLICATION NUMBER: 05/09/599,564A
CURRENT FILING DATE: 2000-06-23
FRIOR PELICATION NUMBER: 09/174,465
FRIOR FILING DATE: 1998-10-19
FRIOR FILING DATE: 1998-10-19
FRIOR FILING DATE: 1998-10-16
FRIOR FILING DATE: 1998-10-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 AAAATAATTCTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT 300
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                       ; OTHER INFORMATION: Description of Unknown Organism:EPIL - Early; OTHER INFORMATION: Placenta Insulin-Like peptide
US-09-174-465D-4
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                                                                                                                      Length 934;
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                                                                                                                                                                        0; Indels
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                                                                                                                      100.0%; Score 342; DB 3; I
100.0%; Pred. No. 2.4e-101;
ive 0; Mismatches 0;
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                                                                                                                                                 Best Local Similarity 100.0
Matches 342; Conservative
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ORGANISM: Unknown
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Patent No. 6180364

GENERAL INFORMATION

APPLICANT: CHASSIN, Dorine

APPLICANT: CHASSIN, Dorine

APPLICANT: CHASSIN, Dorine

TITLE OF INVENTION: NEW PROTEIN CALLED EPIL/FLACENTIN, PROCESS FOR THE

TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN AND PHARMACEUTICAL

TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN AND PHARMACEUTICAL

TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN AND PHARMACEUTICAL

TITLE OF INVENTION: COMPOSITION CONTAINING SUCH, DNA CODING FOR SALD

TITLE OF INVENTION: PROTEIN

FILE REPERBACE: 017753-103

CURRENT APPLICATION NUMBER: US/09/174,465D

CURRENT PRILING DATE: 1996-10-19

PRIOR PRILING DATE: 1996-10-19

PRIOR FILING DATE: 1995-06-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 ATTCCTAATTTGTCACCAGAGCTGAAGAACCACTGTCTGAAGGGCAGCCATCATTGAAG 240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 CCTGAGAAGACATTCACCACCACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 AAAATAATACTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301 GAAGTAATTTGTGACGATGGAACTTCAGTTAAATTATGTACA 342
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100.0%; Pred. No. ...
0; Mismatches
                  FILING DATE: 13-JUN-194
ATTORNEY/AGENT INFORMATION:
NAME: WGGOWAN: MAICONE NO.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 017753-058
TELEFONMUNICATION INFORMATION:
TELEFONMUNICATION 1NFORMATION:
TELEFAX: (703) 836-6620
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 615 Dase pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FR 94-07191
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SEQ ID NO 4
LENGTH: 934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 100.0
Best Local Similarity 100.0
Matches 342; Conservative
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                 ; NAME/KEY: CDS
; LOCATION: 107..523
US-08-482-842B-3
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US-09-174-465D-4
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Matches 341; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Db 301 GAAATGGTGTACACCCCAAGAACAAAGATGGACAAGCCTTAGGTACGACAACACAATTC 360 Oy 181 ATTCCTAATTTGCCAGAGCTGAAGAACACACTGTCTGAAGGGCAGCCATCATTGAAG 240	Oy 241 AAAATAATTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT 300 111111111111111111111111111111111	RESULT 7 US-09-174-465D-1 ; Sequence 1, Application US/09174465D ; Patent No. 6180364 ; GENERAL INFORMATION: ; APPLICANT: KOMAN, Ahment	APPLICANT: CHASSIN, DOTING APPLICANT: BELLET, DOMINGUE TITLE OF INVENTION: NEW PROTEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE TITLE OF INVENTION: PREPARATION OF THIS PROTEIN AND PHARMACEUTICAL TITLE OF INVENTION: COMPOSITION CONTAINING SUCH, DNA CODING FOR SAID TITLE OF INVENTION: PROTEIN	FILE REFERENCE: 017753-103 CURRENT APPLICATION NUMBER: US/09/174,465D CURRENT FILING DATE: 1998-10-19 PRIOR APPLICATION NUMBER: US 08/482,842 PRIOR FILING DATE: 1995-06-07 NUMBER OF SEQ ID NOS: 16	; SOFUTANE: Patentin Ver. 2.0 ; SEQ ID NO 1 ; LENGTH: 615 ; TYPE: DNA ; OREANISM: Unknown	: NAME/KEY: CDS : LOCATION: (1)(615) : OTHER INFORMATION: Description of Unknown Organism:EPIL - Early : OTHER INFORMATION: Placenta Insulin-Like Peptide US-09-174-465D-1	Query Match 99.5%; Score 340.4; DB 3; Length 615; Best Local Similarity 99.7%; Pred. No. 6.6e-101; Matches 341; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Oy 1 GCAGAGCTGAGGGGATGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG 60 11111111111111111111111111111111111	0y 61 CCTGAGAAGACATTCACCACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA 120 111111111111111111111111111111111	DD 301 GAAATGGTGTCAACCTCCAAGAACAAGATGGACAAGCCTTAGGTACGACATCAGAATTC 360
	741 AAATAATACCGGAAAAAGAGAGGGGGGCGTCACAGATTGATCTGTTGT 301 GAAGTAATTTGTGACGACGTTCAGTTAAATTAGTTCATTGTTGT 101 (111111111111111111111111111111111	ESULT 6 S-08-482-842B-1 Sequence 1, Apprenent No. 591 GENERAL INFOR	APPLICANT: KOMAN, Anmet APPLICANT: CHASSIN, Dorine APPLICANT: CHASSIN, Dorine APPLICANT: BELLET, Dominique TITLE OF INVENTION: PROCESS FOR THE PREPARATION OF THIS PROTEIN AND TITLE OF INVENTION: PRARAACEUTICAL COMPOSITION CONTAINING SUCH, DNA CODING FOR TITLE OF INVENTION: SAID PROTEIN TITLE OF SEQUENCES: 7			CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/482,842B FILING DATE: 07-JUN-1995 CLASSIFICATION: 514 PRIOR APPLICATION DATA: ADULTANT ON ATHREP: FP 94-07191	FILING DATE: 13-JUN-1994 ATTORNEY/AGENT INFORMATION: NAME: McGowan, Malcolm K. RECISTANION NUMBER: 39.300 RECISTENCE/COCKET NUMBER: 017753-058	TELEPHONE: (703) 836-6620 TELEPHONE: (703) 836-620 TELEFAX: (703) 836-2021 INFORMATION FOR SEQ 1D NO: 1:		TOPOLOGY: MOLECULE TYPE FEATURE: NAME/KEY: LOCATION: S-08-482-842B-1	Query Match 99.5%; Score 340.4; DB 2; Length 615; Best Local Similarity 99.7%; Pred. No. 6.6e-101;

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SOFTWARE: Patentin Ver. 2.0
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ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: CDS
LOCATION: (1)
                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Pat
SEQ ID NO 9
LENGTH: 153
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                                    US-09-174-465D-9
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                241 AAAATTACTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT 300
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APPLICANT: KOMAN, Abment
APPLICANT: CHASSIN, Dorine
APPLICANT: CHASSIN, Dorine
APPLICANT: CHASSIN, Dorine
APPLICANT: BELLET, Dominique
TITLE OF INVENTION: NEW PROTEIN OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: COMPOSITION CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: PROTEIN
TITLE OF INVENTION: PROTEIN
TITLE OF INVENTION: PROTEIN
TITLE OF INVENTION: 2000-06-23
FILE REFERENCE: 017753-127
CURRENT PALLING DATE: 1990-10-19
PRIOR PAPLICATION NUMBER: 09/174,465
PRIOR PAPLICATION NUMBER: US 08/482,842
PRIOR FILING DATE: 1990-10-19
PRIOR PAPLICATION NUMBER: US 08/482,842
PRIOR FILING DATE: 1995-06-07
SOFTWARE: PATENTING DATE: 1995-06-07
SOFTWARE: PATENTING DATE: 2.0
SEQ 1D NO 1
SEQ 1D NO 1
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ATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAGCCATCATTGAAG
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LOCATION: (1)..(615)
COTHER INFORMATION: Description of Unknown Organism:EPIL - Early
COTHER INFORMATION: Placenta Insulin-Like Peptide
US-09-599-564A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99.5%; Score 340.4; DB 4; Length 615; 99.7%; Pred. No. 6.6e-101; tive 0; Mismatches 1; Indels 0
                                                                                                                                      301 GAAGTAATTTGTGACGATGGAACTTCAGTTAAATTATGTACA 342
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; Patent No. 6362318
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Matches 341; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Unknown
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Best Local
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GENERAL INFORMATION:
APPLICANT: KOMAN, Ahment
APPLICANT: CHASSIN, Dorinique
TITLE OF INVENTION: PREPARATION OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: PROPESTION OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: COMPOSITION CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: PROTEIN
FILE REPRENCE: 01753-103
CURRENT APPLICATION NUMBER: US/09/174,465D
CURRENT FILING DATE: 1998-10-19
PRIOR FILING DATE: 1998-10-19
PRIOR FILING DATE: 1998-10-07
NUMBER OF SEQ ID NOS: 16

SOFTWARE: PATENTING VET 2.0
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Sequence 9, Application US/09599564A

Setent No. 6562318

GENERAL INFORMATION:
APPLICANT: CHASSIN, Dorine
APPLICANT: CHASSIN, Dorine
APPLICANT: CHASSIN, Dorine
APPLICANT: CHASSIN, Dorine
TITLE OF INVENTION: NEW PROTEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE
TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: COMPOSITION CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: COMPOSITION CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: COMPOSITION OF THIS APPLICATION NUMBER: US/09/599,564A
CURRENT FILING DATE: 1996-10-19
FRIOR FILING DATE: 1996-10-19
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44.7%; Score 153; DB 3; 1
Best Local Similarity 100.0%; Pred. No. 2.2e-40;
Matches 153; Conservative 0; Mismatches 0;
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Sequence 9, Application US/09174465D Patent No. 6180364
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APPLICANT: KOMAN, Anment
APPLICANT: CHASSIN, Dominique
APPLICANT: CHASSIN, DOMINIQUE
TITLE OF INVENTION: NEW PROTEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE
TITLE OF INVENTION: PREPARATION CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: PROPERIN CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: PROTEIN
FILE REFERENCE: 017753-103
CURRENT APPLICATION NUMBER: US/09/174,465D
CURRENT FILING DATE: 1998-10-19
PRIOR APPLICATION NUMBER: US 08/482,842
NUMBER OF SEC IN 08.: 16
APPLICANT: BELLET, DOMINIQUE
TITLE OF INVENTION: NEW PROPEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE
TITLE OF INVENTION: NEW PROPEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE
TITLE OF INVENTION: PROPEIN
TITLE OF INVENTION: CORPOSITION CONTAINING SUCH, DNA CODING FOR SAID
TITLE OF INVENTION: PROTEIN
FILE REFERENCE: 017753-127
CURRENT APPLICATION NUMBER: 05/09/599,564A
CURRENT FILING DATE: 1998-10-19
PRIOR FILING DATE: 1998-10-19
PRIOR FILING DATE: 1998-10-19
PRIOR FILING DATE: 1998-10-19
PRIOR FILING DATE: 1998-10-19
SPRIOR FILING DATE: 1998-10-19
SOFTWARE: PALENTIN VET: 2.0
SOFTWARE: PALENTIN VET: 2.0
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OTHER INFORMATION: Description of Unknown Organism:EPIL - Early OTHER INFORMATION: Placenta Insulin-Like peptide
US-09-599-564A-7
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... OTHER INFORMATION: Description of Unknown Organism:EPIL - Early CTHER INFORMATION: Placenta Insulin-Like peptide
US-09-174-465D-11
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Best Local Similarity 100.(
Matches 90; Conservative
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Matches 99; Conservative
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ORGANISM: Unknown
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NAME/KEY: CDS
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LENGTH: 93
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APPLICANT: KOMAN, Ahment
APPLICANT: CHASEIN:
APPLICANT: CHASEIN:
TITLE OF INVENTION: NEW PROTEIN CALLED EPIL/PLACENTIN, PROCESS FOR THE
TITLE OF INVENTION: NEW PROTEIN OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: PROTEIN
FILE REFERENCE: 017753-103
CURRENT APPLICATION NUMBER: US/09/174,465D
CURRENT FILING DATE: 1998-10-19
PRIOR APPLICATION NUMBER: US 08/482,842
PRIOR FILING DATE: 1995-06-07
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PATENTIN Ver. 2.0
                                                                                                                                                                                                                                                               100 CTGGAATCTGGACGTCCCAAAGAAAGGTGTCAACCTCCAACAACAAGAAGGTGGACAAGC 159
                                                                                                                                                                                                                                                                                                                                                                                             160 TTAGGTACGACATCAGAATTCATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCT 219
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                                                     OTHER INFORMATION: Description of Unknown Organism:EPIL - Early CHER INFORMATION: Placenta Insulin-Like peptide US-09-564A-9
                                                                                                                                                         Query Match

44.7%; Score 153; DB 4; Length 153;
Best Local Similarity 100.0%; Pred. No. 2.2e-40;
Matches 153; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   th 28.9%; Score 99; DB 3; Length 123; Similarity 100.0%; Pred. No. 6.5e-23; 99; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : LOCATION: (1)..(123)
; OTHER INFORMATION: Description of Unknown Organism:EPIL; OTHER INFORMATION: Placenta Insulin-Like peptide US-09-174-465D-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 CCTGAGAAGACATTCACCACCACCCCAGGAGGGTGGCTC 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      220 GAAGGCCAGCCATCATTGAAGAAATAATACTT 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 7, Application US/09174465D ; Patent No. 6180364
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, APPLICANT: KOMAN, Abment
                                ..(153)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Unknown
     NAME/KEY: CDS
LOCATION: (1)
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US-09-599-564A-7
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US-09-174-465D-7
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Matches 9
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FEATURE:

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Matches
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Sequence 11, Application US/0959564A
Sequence 11, Application US/0959564A
Sequence 11, Application US/0959564A
Sequence 11, Application US/0959564A
GENERAL INFORMATION:
APPLICANT: KOMAN, Ahment
APPLICANT: KOMAN, Ahment
APPLICANT: CHASSIN, Dorine
APPLICANT: Dominique
TITLE OF INVENTION: PREPARATION OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN AND PHARMACEUTICAL
TITLE OF INVENTION: COMPOSITION OF THIS PROTEIN
FILE REFERENCE: 017753-127
CURRENT APPLICATION NUMBER: 09/174,465
PRIOR FILING DATE: 1998-10-19
SPRIOR FILING DATE: 1998-10-19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 11
LENGTH: 93
TAVET. DATA
TOTAL TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 TCCCGCAAAAAGAGAAATGGACGTCACACAGATTTGATCCATTCTGTTGTGAAGTAATTTGT 60
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COGANISM: Unknown

FRATURE:

NAME/KRY: CDS

LOCATION: (1)..(93)

COTHER INFORMATION: Description of Unknown Organism:EPIL - Early

COTHER INFORMATION: Placenta Insulin-Like peptide

US-09-599-5648-11
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5464756
; Patent No. 5464756
; Patent No. 5464756
; Patent No. 5464756
; Patent No. 5464756
; James A.; Tansura, Dennis J.; Vandlen, Richard L.; Wilkins,
; James A.; Tansura, Daniel G.
; Title Of Invention: Process and compositions for the
; ISOLATION HUMAN RELAXIN
; ROLATION HUMAN RELAXIN
; ROLATION NUMBER: US/07/908,766
; FILING DATE: UJ-ULL-1992
; PRIOR APPLICATION DATA:
APPLICATION NUMBER: 347,550
; RILING DATE: 04-MAY-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21.0%; Score 71.8; DB 6; Length 489;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  313 GACGATGGAACTTCAGTTAAATTATGTACA 342
                                                                                                                                                           313 GACGAIGGAACTICAGITAAATTAIGTACA 342
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                                                                                                                                                                                                        61 GACGATGGAACTTCAGTTAAATTATGTACA 90
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US-09-599-564A-11
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Sequence 465, App
Sequence 31961, App
Sequence 2, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 3, Appli
                                                                                                                                    October 17, 2003, 02:21:42; Search time 183 Seconds (without alignments) 4907.846 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                     US-09-518-842-1_COPY_76_417
342
1 GCAGAGCTGAGGGGATGTGG..........CTTCAGTTAAATTATGTACA 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
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2. (cgn2_6/ptodata/2/pubpna/USO7_PUBCOMB.seq:*
3. (cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*
3. (cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*
4. (cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*
5. (cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*
6. (cgn2_6/ptodata/2/pubpna/USO8_NEW_PUB.seq:*
7. (cgn2_6/ptodata/2/pubpna/USO8_NEW_PUB.seq:*
8. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
9. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
10. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
11. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
12. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
13. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
14. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
15. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
16. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
17. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
17. (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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US-09-769-465
US-09-82-827-465
US-09-895-793-465
US-09-895-793-465
US-10-144-678-465
US-10-144-678-465
US-10-294-025-465
US-10-012-896-465
US-10-010-940-465
US-10-010-940-465
US-10-010-940-465
US-09-715-103-2
US-09-715-103-2
US-09-713-2
US-09-713-3
US-10-045-428A-2
US-10-045-428A-2
US-10-045-428A-2
US-10-045-428A-2
US-10-045-428A-2
US-10-045-428A-2
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US-10-045-428A-3
US-10-045-428A-3
US-10-045-428A-3
US-10-045-428A-3
US-10-045-428A-3
US-10-045-428A-3
US-10-045-428A-3
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Maximum Match 100%
Listing first 45 summaries
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                                                                                              OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                   IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0 Maximum DB seq length: 2000000000
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Match Length DB
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20.2 231
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e 298520, e 111160, e 111160, ce 1, Appl 2481, Appl e 346198, e 310248, Appl e 310249, Appl e 312, Appl e 223414, e 3263, Appl e 213414, e 3632, Appl e 3869, Appl e 3869, Appl e 185112, e 18512, Appl e 18512, Appl		, O ,
12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Gaps
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332-288520 332-111160 6626-1 662481 662481 332-30248 332-30248 332-30248 332-30248 88-313 88-313 88-313 88-313 88-313 88-313 88-313 89-313 89-313 89-313 86-314 86-314 86-313 86	DS FOR	33
027 - 632 -	MENTS TATE CAS 143 13.0	1.2e
10-027 11-027 11-027 12-032 13-032 10-027 11-027 11-027 11-040 11	ALIGNMENT: 143 AND METH PROSTATE /759,143 rsion 3.0	d. No. 1.2 Mismatches
200 200 200 200 200 200 200 200 200 200	ALIGN ALIGN ALI un G. nnnifer L. Susan L. i.	Pred.
	US/05 C ifer ifer il D. C. r A. W A. M A. W A. W A. W A. W A. W A. W A. M A A A A A A.	, ,
528 1699 1059 1059 1059 1059 1059 1059 1059 10	ALIGNM 43-465/C 465, Application US/09759143 5. US20020022248A1 INFORMATION: TX U, Jiangchun C. TY Mitcham, Jennifer L. TY HAILOCKEY. Susan L. TY HAIOCKEY. ALCHEL D. TY FANGY. WICHEL D. TY FANGY. WICHEL D. TY FANGY. MICHEL D. TY FANGY. MICHEL D. TY STORY. TOWN S. TY CATET. DAILOCK TY SECHY. Thomas S. TY CATET. DAILOCK TY SECHY. THOMS S. TY CATET. DAILOCK TY SECHY. THOMS S. TY WANGY. YASIT A.W. TY WANGY. AND M. TY SECHY. WILLIAM TY SECHY.	74 74 ativ
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	SSULT 1 5:09-759-143 5:09-759-143 6APERAL INF APPLICANT: APPLICANT	
11112222222222222222222222222222222222	RESULT 1 OS-09-759 Patent of Paten	Best Lo Matches
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120 AGAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATT 179
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                                                                                                                                                                                                                                                                                180 CATTCCTAATTTGTCACCAGAGCTGAAGAACCACTGTCTGAAGGGCAGCCATCATT 236
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.534C2
CURRENT APPLICATION NUMBER: US/09/895,793
CURRENT FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 982
SEQ ID NO 465
LENCTH: 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 20.2%; Score 69; DB 10; Length 231; Best Local Similarity 74.4%; Pred. No. 1.2e-12; Matches 87; Conservative 0; Mismatches 30; Indels
                                                                                                                  ch 20.2%; Score 69; DB 9; Length 231; Similarity 74.4%; Pred. No. 1.2e-12; 87; Conservative 0; Mismatches 30; Indels
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Houghton, Raymond L.
Vinals de Bassols, Carlota
                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 465, Application US/09895793
Publication No. US20020192763A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Matcham, Jennifer L.
APPLICANT: Malos, Michael D.
APPLICANT: Kalos, Michael D.
APPLICANT: Retter, Marc W.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Li, Samuel X.
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Hural, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Skeiky, Yasir A.W.
Hepler, William T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wang, Aljun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Foy, Teresa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                        ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-822-827-465
                                                                                                                                     Best Local Similarity
Matches 87; Conserv
                                                                                                                                                                                                                                                                                                                                                                                  RESULT 4
US-09-895-793-465/c
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SEQ ID NO 465
LENGTH: 231
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                                                                                                                       Query Match
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                       180 CATTCCTAATTTGTCACCAGAGCTGAAGAACCACTGTCTGAAGGGCAGCCATCATT 236
                                                                                                   Gaps
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APPLICANT: Hepler, William
APPLICANT: Hural, John
APPLICANT: Hural, John
APPLICANT: Houghton, Pariticia D.
APPLICANT: Moughton, Raymond L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIZ OF PROSTATE CANCER
FILE REFERENCE: 210121.427024
CURRENT FILING DATE: 2001-02-09
NUMBER OF SEQ ID NOS: 943
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Patent No. US20020081680A1

GENERAL INFORMATION:
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.514C1

CURRENT APPLICATION NUMBER: US/09/822,827

CURRENT FILING DATE: 2001-03-28

NUMBER OF SEQ 1D NOS: 982

SOFTWARE: PastSEQ for Windows Version 3.0
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                                                                                                                                                                                                                    Sequence 465, Application US/09780669 Patent No. US20020051977A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                           XX. Jiangchun
Dillon, Davin C.
Mitcham, Jennifer L.
Harlocker, Susan L.
Jiang, Yuqui Robert A.
Kalos, Michael D.
Fanger, Gary R.
Retter, Marc W.
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Day, Craig B.
Vedvick, Thomas S.
Carter, Darrick
Li, Samuel
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US-09-780-669-465
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Best Local Similarity
Matches 87; Conserv
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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Gaps

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180 CATTCCTAATTTGTCACCAGAGCTGAAGAACCACTGTCTGAAGGGCAGCCATCATT 236
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Publication no. US203019583041
GENERAL INFORMATION:
APPLICANT: XU, Jiangchun
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: CMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICANTON NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF EASLESD FOF Windows Version 3.0
SEQ ID NOS: 1038
SOFTWARE: FastESD FOF Windows Version 3.0
                                                                                                                                                                               TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427625 GF PROSTATE CANCER CURRENT APPLICATION WURBER: 05/10/144,678A CURRENT FILING DATE: 2002-08-12 NUMBER OF SEQ ID NOS: 1033 SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 20.2%; Score 69; DB 12; Length 23:
Best Local Similarity 74.4%; Pred. No. 1.2e-12;
Matches 87; Conservative 0; Mismatches 30; Indels
                    APPLICANT: Hural, John
APPLICANT: MCMelll, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals y de Bassols, Carlota
APPLICANT: Foy, Teresa M.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Deng, Ta
Hepler, William T.
                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
US-10-144-678A-465
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US-10-294-025-465
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND FITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210.11.4270.56

CURRENT APPLICATION NUMBER: US/09/895,814

CURRENT FILING DATE: 2001.06-29

NUMBER OF SEQ. ID NOS: 9900

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 465
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Vinals de Bassols, Carlota
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: Publication No. US20030157089A1
; GENERAL INFORMATION:
               Sequence 465, Application US/09895814; Publication No. US20020193296A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: XU, Jiangchun APPLICANT: XU, Jiangchun C. APPLICANT: Mitcham, Jennifer L. APPLICANT: Harlocker, Susan L. APPLICANT: Handerson, Robert A. APPLICANT: Henderson, Robert A. APPLICANT: Fanger, Gary R. APPLICANT: Ralos, Michael D. APPLICANT: Ralos, Marchael D. APPLICANT: Ralos, Marchael D. APPLICANT: Ralos, Marchael D. APPLICANT: Ralos, Marchael D. APPLICANT: Stolk, John A.
                                                                                     APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqiu
APPLICANT: Kalos, Michael D.
                                                                                                                                                                                                                                                                                                                                                                                                                          Hepler, William T.
Henderson, Robert A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           McNeill, Patricia D
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Vedvick, Thomas S.
Carter, Darrick
L1, Samuel X.
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Skeiky, Yasir A. W.
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Vedvick, Thomas S.
Carter, Darrick
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Stolk, John A.
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US-10-144-678A-465/C
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APPLICANT:
APPLICANT:
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APPLICANT:
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0; Gaps

Length 231;

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120 AGAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATT 179
                                                                                                                                                   0; Gaps
     Length 231;
                                         Indels
Ouery Match 20.2%; Score 69; DB 12; Best Local Similarity 74.4%; Pred. No. 1.2e-12; Matches 87; Conservative 0; Mismatches 30
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US-10-012-896-465/c
'Sequence 465, Application US/10012896
'Publication No. US20020183251A1
'GENERAL INFORMATION:
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; SEQ ID NO 465
; LENGTH: 231
; TYPE: DNA
; ORGANISM: HOMO SapienS
US-10-010-940-465
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US-10-205-823-348
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LENGTH: 558
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APPLICANT: Wartanabe, Yoshihiro
APPLICANT: Wartanabe, Yoshihiro
APPLICANT: Wartanabe, Yoshihiro
APPLICANT: Wardeleine Joy
IIILE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427627
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT APPLICATION NUMBER: US/10/12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 20.2%; Score 69; DB 13; Length 231; Best Local Similarity 74.4%; Pred. No. 1.2e-12; Matches 87; Conservative 0; Mismatches 30; Indels
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APPLICANT: SOLK, John
APPLICANT: Day, Craig
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.42703
CURRENT APPLICATION NUMBER: US/10/010,940
CURRENT FILING DATE: 2001-12-05
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSEQ for Windows Version 3.0
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Houghton, Raymond L.
Vinals de Bassols, Carlota
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Sequence 465, Application US/10010940

Publication No. US20030088062Al

GENERAL INFORMATION:
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APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan Louise
  Xu, Jiangchun
Dillon, Davin C.
Mitcham, Jennifer L.
Harlocker, Susan L.
                                                                                                                                                                                                                                                   Skeiky, Yasir A.W.
Hepler, William T.
Henderson, Robert A.
                                                                                                                                                       Day, Craig H.
Vedvick, Thomas S.
Carter, Darrick
Li, Samuel X.
                                                                               Jiang, Yuqiu
Kalos, Michael D.
Retter, Marc W.
Stolk, John A.
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                                                                                                                                                                                                                                      Wang, Aijun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : ORGANISM: Homo sapiens
US-10-012-896-465
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APPLICANT:
APPLICANT:
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APPLICANT
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GENERAL INCRMATION:

APPLICANT: Schlegel, Robert

APPLICANT: Schlegel, Robert

APPLICANT: Endege, Wilson O.

APPLICANT: Endege, Wilson O.

APPLICANT: Endege, Wilson O.

APPLICANT: Gorbatcheva, Bella

APPLICANT: Gorbatcheva, Bella

APPLICANT: Gorbatcheva, Bella

APPLICANT: Hoersch, Schastlan

APPLICANT: Hoersch, Schastlan

APPLICANT: Monsey, Angela M.

APPLICANT: Monsey, Angela M.

APPLICANT: Anderson, Dustin

APPLICANT: Anderson, Dustin

APPLICANT: Anderson, Dustin

TITLE OF INVENTION: NUFLE GENES, COMPOSITIONS, KITS, AND

TITLE OF INVENTION: THERAPY OF PROSTATE CANCER

FILE REFERENCE: MRI-044

CURRENT APPLICATION NUMBER: 60/30',982

PRIOR FILING DATE: 2001-07-25

PRIOR FILING DATE: 2001-09-25

PRIOR FILING DATE: 2001-09-25

PRIOR FILING DATE: 2001-09-25

PRIOR FILING DATE: 2001-10-12-12

PRIOR FILING DATE: 2001-12-12

PRIOR FILING DATE: 2001-13-15

PRIOR FILING DATE: 2001-13-15
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                                                                                                                                          120 AGAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATT 179
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                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
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Length 231;
                                                                        30; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGAAGAAACCACTGTCTGAAGGGCAGCCATCATT 236
Score 69; DB 14;
Pred. No. 1.2e-12;
0; Mismatches 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 348, Application US/10205823; Publication No. US20030108963A1; GENERAL INFORMATION:
Query Match
Best Local Similarity 74.4%;
Matches 87; Conservative
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Best Local Similarity 65.24
Matches 101; Conservative
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GENERAL INFORMATION:
APPLICANT: BEASLEY, Ellen et al.
APPLICANT: BEASLEY, Ellen et al.
TITLE OF INVENTION: ACID HUMAN ENZYME PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
TITLE OF INVENTION: THEREOF
FILE REPREMENCE: CLOOL192
CURRENT APPLICATION NUMBER: US/09/818,512
CURRENT FILING DATE: 2001-03-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                54 CCCCATGCCTGAGAAGACATTCACCACCACCCAGGAGGGTGGCTGCTGGAATCTGGACG 113
           114 TCCCAAAGAAATGGTGTCAACCTCCAACAAGAAGATGGACAAGCCTTAGGTACGACATC 173
                                                     162 GCAGAAAAGAAGAACATCACTCTTAAACTACAAAAGAGAGACTTTGTGTACTTCCAAAATC 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          114 TCCCAAAGAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATC 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           162 GCAGAAAAAGAAGACATCACTCTTAAACTACAAAGAGAGACTTTGTGTACTTCCAAAATC 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                         174 AGAATTCATTCCTAATTTGTCACCAGAGCTGAAGAAA 210
                                                                                                                                                                                                                                 222 CGTGTTGAGCTACTATGAGGGTCGAGGGGGGAGAAA 258
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APPLICANT: Sakata, Tsuneaki
APPLICANT: Sakata, Tsuneaki
APPLICANT: Hasegawa, Mamoru
APPLICANT: Hasegawa, Mamoru
APPLICANT: Tabata, Toshiaki
TITLE OF INVENTION: Promoter
FILE REFERENCE: 50026/011003
FILE REPERENCE: 50026/011003
CURRENT FILING DATE: 2002-04-15
PRIOR FILING DATE: 2000-12-12
PRIOR FILING DATE: 1999-08-12
PRIOR FILING DATE: 1999-08-12
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: PCT/JP97/00741
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: PGT/JP97/00741
PRIOR FILING DATE: 1996-03-12
PRIOR SEQ ID NOS: 16
SOFTWARE: FASTEEQ for WINGOWS VEFSION 4.0
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SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2, Application US/10045428A Publication No. US20020115845A1 GENERAL INFORMATION:
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; Patent No. US20020142416A1
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Best Local Similarity 52.9%;
Matches 83; Conservative
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ORGANISM: Human
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US-09-818-512-3/c
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GENERAL INFORMATION:
APPLICANT: SHOSHAN, Avi
APPLICANT: MINTZ, E11
APPLICANT: MINTZ, E11
APPLICANT: MINTZ, E12
APPLICANT: MINTZ, Liat
APPLICANT
APPLICANT: MINTZ, LIAT
APPLICAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 102 CCAGAAGACCGAGATGAATTTCAACACTATCCTAGAAGAGATTCTTATTAAAAGGTCCCA 161
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Pred. No. 0.058;
0; Mismatches 74; Indels 0
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   292 CIGAAGGCAGCCCIAICTGAGAGGCAACCAICAII 326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: MANO, HITOYUKI
APPLICANT: SAXATA, TSUNGAKI
APPLICANT: SAXATA, TSUNGAKI
APPLICANT: SAXATA, TSUNGAKI
APPLICANT: SAXATA, TSUNGAKI
APPLICANT: SAXATA, TSUNGATI
APPLICANTON: Promoter
FILE REFERENCE: 50026/011002
CURRENT APPLICATION NUMBER: US/09/735,103
CURRENT PILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PRIOR PLING DATE: 1998-09-09
PRIOR PELING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: JSY-03-10
PRIOR PPLING DATE: 1996-03-12
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
                                                                                                                                                                                       Sequence 31961, Application US/09908975
Publication No. US20030165843A1
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Patent No. US20010005589Al
GENERAL INFORMATION:
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1 Similarity 52.9%;
83; Conservative (
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US-09-735-103-2
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Best Local Similarity
Matches 83; Conserv
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RESULT 15
US-10-354-065-3/C
US-10-354-065-3/C
Sequence 3, Application US/10354065
Sequence 3, Application US/10354065
Sublication No. US20030138837A1
GENERAL INFORMATION:
ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: CL001192DIV
CURRENT APPLICATION NUMBER: US/10/354,065
CURRENT PILLING DATE: 2003-01-30
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FASESEQ for Windows Version 4.0
                                                                                                                                                                                                                        101 TGGAATCTGGACGTCCCAAAGAATGGTGTCAACCTCCAACAACAAGATGGACAAGCT 160
                                                                                                                                                                                                                                                                                       161 TAGGTACGACATCAGAATTCATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTG 220
                                                                                                                                                         Gaps
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                                                                                                        Query Match 10.2%; Score 35; DB 10; Length 116592; Best Local Similarity 53.2%; Pred. No. 7; Matches 74; Conservative 0; Mismatches 65; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc_feature; LOCATION: (1)...(116592); OTHER INFORMATION: n = A,T,C or GUS-10-354-065-3
NAME/KEY: misc_feature; LOCATION: (1)...(116592); OTHER INFORMATION: n ~ A,T,C or G US-09-818-512-3
                                                                                                                                                                                                                                                                                                                                                                             221 AAGGGCAGCCATCATTGAA 239
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 116592
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Query Match 10.2%; Score 35; DB 12; Length 116592;
Best Local Similarity 53.2%; Pred. No. 7;
Matches 74; Conservative 0; Mismatches 65; Indels 0; Gaps 0;
Oy 101 TGGAATCHGGGGCGCGCCCAAGAAATGGTGAAACCTCCAACAAGAAGGATGGACT 160
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Db 4263 CAGAGTAGCCAGAGCTGAA 4245

Search completed: October 17, 2003, 03:26:36 Job time : 187 secs

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A1148843 qc65h02.x
BQ011259 U11-BC0-
A777897 z,193e05.s
A1128289 qc66q12.x
A11080597 wg12d05.x
BG623890 602649042
CB549181 MMPL00017-
BG004108 UT.1-BC0-
CB549181 MMPL00017-
BG004108 UT.1-BC0-
CB54985 MMPL0002-
CB54987 MMPL00017-
CB55045 MMPL0017-
CB55049740 MMPL0012-
CB549140 MMPL0012-
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CB549190 MMPL0017-
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CB549190 MMPL0018-
CB549110 MMPL0018-
CB550077 MMPL0010-
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CB550077 MMPL0010-
CB550077 MMPL0009-
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1 (bases 1 to 451)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
NATIONAI Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
                                                                                                                                                                                                                                                                                                                                                                                                                                       451 bp mRNA linear EST 18-AUG-: oc20aO/x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1566708 3' similar to gb:X59357 60S RIBOSOMAL PROTEIN L22 (HDMAN); mRNA sequence.
A1088100
A1088100.1 GI:3426808
EST.
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Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
This clone is available royalty-free through LLNL; contact the
ThAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 436.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                           ALIGNMENTS

    .451
    /organism="Homo sapiens"

                                              BG623890
CB549181
CB549181
CB549885
CB549345
CB550346
CB550346
CB550346
CB55016
CB549109
CB549463
AA44266
H70182
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BG007247
R641049
H70182
BG007349
  Homo sapiens (human)
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659
490
414
431
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348
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A1088100/c
LOCUS
DEFINITION
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VERSION
KEYWORDS
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COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
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BX102762 BX102762
AU136752 AU136752
AL550042 AL550042
                                                             October 17, 2003, 01:30:16; Search time 1428 Seconds (without alignments) 5820.820 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                     1 GCAGAGCTGAGGGGATGTGG...........CTTCAGTTAAATTATGTACA 342
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         GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                    22781392 seqs, 12152238056 residues
                                                                                                                                                                                      hits satisfying chosen parameters:
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Maximum Match 100%
Listing first 45 summaries
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BX102762
AU136752
AL550042
                                                                                                   US-09-518-842-1_COPY_76_417
342
                                              nucleic search, using sw model
                                                                                                                                        IDENTITY_NUC Gapox 10.0
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em_gss_vrt:*
em_gss_fun:*
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em_gss_rod:*
em_gss_phg:*
em_gss_vrl:*
gb_gssl:*
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Maximum DB seq length: 200000000
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em_gss_hum:*
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em_gss_mus:*
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em_esthum:*
em_esthum:*
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gb_est2:*
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Match Length DB
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gb_est5:*
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Perfect score:
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// organism="homo sapiens"
// organism="homo sapiens"
// organism="homo sapiens"
// ob__type="mRNA"
// db_xref="taxon:9606"
// clone="lwGp998E2118"; IMAGE:66428"
// dev_stage="20 week-post conception fetus"
// lab_host="blid" (ampfoillin resistant):
// clone_lib="soares fetal liver spleen lNFLS"
// note="Organ: Liver and Spleen; Vector: pT/T3D (pharmacia)
// ist strand cDNA was primed with a pac I = oligo(dT) primer
// double-strandcd-cDNA was ligated to Eco RI adaptors
// double-strandcd-cDNA was ligated to Eco RI adaptors
// (Pharmacia), digested with pac I and cloned into the Pac I and Eco RI sites of the modified pT/T3 vector. Library
// went through one round of normalization. Library
// constructed by Bento Soares and M.Fatima Bonaldo."
             RZPDILB; I.M.A.G.E. cDNA Clone Collection;
RZPDILB; I.M.A.G.E. cDNA Clone Collection;
Human UniqueneSet - RZPD3 (RZPDILB No.972)
http://www.rzpd.de/CloneCard8/Cg1-
bin/showiib.pl.cgi/response7lib/0-972 Contact: Ina Rolfs
RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
Heubnerweg 6, D-14059 Berlin, Germany
Tel: +49 30 32639 101
Fax: +49 30 32639 111
www.rzpd.de
This clone is available royalty-free from RZPD;
contact RZPD (clone@frzpd.de) for further information. Seq primer:
Ml3r, Primer sequence: TTTCACACAGGAAACAGCTATGAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AU136752 AUG-2002 816 bp mRNA linear EST 02-AUG-2002 AU136752 PLACEl Homo sapiens cDNA clone PLACE1005004 5', mRNA
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                                                                                                             // Actor=1120- SOURTES_NOTE_PO_WOU_LFR_PISTORY (Pharmacia) with a modified polylinker; Site_1: Not I: Site_2: Eco RI; Equal amounts of plasmid DNA from five normalized libraries were mixed, and Ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5.000 clones made from the same 5 libraries. The pools consisted of the following libraries and cloneiDs: Soares NBAFF pool 1: 309384-310919, 323268-325895 Soares NBAFF pool 1: 150407, 151176-15237 Soares NBAFF pool 1: 758280-766583, 772104-774407 Soares NBHPA pool 1: 758280-766583, 772104-77440. Soares NBHPA pool 1: 758280-766583, 772104-77440. Soares NBHPA pool 1: 75870-726407, 739960-740999 Subtraction by Bento Soares and M. Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     621 bp mRNA linear EST 06-FEB-2003
BX102762 Soares fetal liver spleen INFLS Homo sapiens cDNA clone
IMAGPS98E2118 ; IMAGE:66428, mRNA sequence.
BX102762
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Eukaryota: Metazoa; Chordata: Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ebert,L., Heil,O., Hennig,S., Neubert,P., Partsch,E., Peters,M.,
Radelof,U., Schneider,D. and Korn,B.
Human UnigeneSet - RZPD3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GCAGAGCTGAGGGGATGTGGTCCCCCGATTTGGAAACACTTGCTGTCATATTGCCCCATG
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RZPD Deutsches Ressourcenzentrum fuer Genomforschung
Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 451;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                  /clone_lib="Soares_NSF_F8_9W_OT_PA_P_S1"
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1larity 100.0%; Pred. No. 7.7e-93;
Conservative 0; Mismatches 0;
                                                    /clone="IMAGE:1566708"
/mol_type-"mRNA"
/db_xref-"taxon:9606"
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nes 342; Conserv
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Contact: Genoscope
Genoscope
Genoscope
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Trance
BP 191006 EVRY cedex - France
BP 1919 $1006 EVRY cedex - France
Email: sequence operation of
Invitrogen. This sequence belongs to sequence cluster 5302.f For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-lahn/cluster.cgi/sseq-S0BDD53ABHIDP16cluster-5302.f. Contact :
Feng Liang Email: fliang@ilfetech.com URL :
Feng Liang Email: fliang@ilfetech.com URL :
Feng Liang Email: invitrogen.com/ Invitrocen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODIO53ABHIQP1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="man.compress."
/mol_type="man.compress."
/mol_type="man.compress."
/clone="cS0D1053YC21"
/tissue_type="man.compress."
/tissue_type="man.compress."
/clone="lst strand cDNA was primed with a NotI-oligo(dT)
/note="lst strand cDNA was primed with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized.
a 243 c 240 g 321 t 24 others
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  1 (bases 1 to 1201)
Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished
This sequence version replace
                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism-"Homo sapiens"
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Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                    Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 816) Cta.7., Nishikawa, Y., Suzuki, Y., Ishii, S., Saito, K., Kawai, Y., Yamamoto, J., Wakamatsu, A., Nakamura, Y., Nagai, T., Sugano, S. and
                                                                                                                                                                                                                                                     Helix Research Institute
1532-3 Yana, Xisarazu, Chiba 292-0812, Japan
1532-3 Yana, Xisarazu, Chiba 292-0812, Japan
15438-52-3975
Fax: 81-438-52-396
Email: genomics@hri.co.jp
HRI human cDNA project; 5'- & 3'-end one pass sequencing: Helix
Research Institute; cDNA library construction: Department of
Wirology, Institute of Medical Science, University of Tokyo, and
Helix Research Institute.
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170 c 177 g 204 t
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="PLACE1005004"
/tissue_type="placenta"
/clone_lib="PLACE1"
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                                                                                                                                                                     HRI human cDNA project
                                                                                                                                                                                                             Contact: Takao Isogai
Genomics Laboratory
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                              Contact: Robert Strausberg, Ph.D.
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                                                                                                                                                                                     Email: Gapbs: Finail.inh.gov

Finail: Inh.gov

This clone is available royalty free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

Seq primer: -40ml3 fwd. ET from Amersham

High quality sequence stop: 434.

Location/Qualifiers

1. 478/

Anglish="Homo sapiens"

Anglish="Homo sapiens"

Anglish="TAXON:9606"

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                       1 (bases 1 to 478)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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Contact: Robert Strausberg, Ph.D.
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sapiens (human)

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ACCESSION VERSION KEYWORDS SOURCE

Homo saptens

ORGANISM

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/mod_type="mrkw."
//db_xref="taxon:9606"
//clone="U1-1=BC0-afn:f-07-0-01"
//issue_type="Placenta"
//dev_stage="8-9 weeks"
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//done_lib="Mod_Capa_Pil"
//done_lib="Mod_Capa_Pil"
//done_lib="Mod_Capa_Pil"
//done_lib="Mod_Capa_Pil"
//dex_Pil is a cDNA library containing the following
//derome Research, 6:791-806, 1996. First strand cDNA
//denome Research, 6:791-806, 1996. First strand cDNA
//departs was primed with an oligo-dr primer containing a
//detail strand with Not I, and cloned directionally
//directionaliy into pT773-Pac vector. The oligonuclectide used to prime
//departs is located between the Not I site and the
//departs is located between the Not I site and the
//departs in the sequence that is located between the Not I site and the
//departs in the sequence that is located between the Not I site and the
//departs is located between the Not I site and the
                                                                                                                                                                                                                                       Email: cgapbs:r@mail.nbi.gov
Tissue Procurement: Dr. Steven Brown
Tissue Procurement: Dr. Steven Brown
Tissue Procurement: Dr. Steven Brown
Toba Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
Seq primer: M.3 FORWARD
POLYA*Yes.
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                           1 (bases 1 to 629)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 ATTCCTAATTTGTCACCAGAGCTGAAGAACCACTGTCTGAAGGGCAGCCATCATTGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 AAAATAATACTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        215 AAAATAATACTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           155 GAAGTAATTIGIGACGAIGGAACTICAGITAAATTAIGTACA 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 99.5%; Score 340.4; DB 12; Best Local Similarity 99.7%; Pred. No. 2.8e-92; Matches 341; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAG_TISSUE=placenta human 8 week
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       203 t
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Pred. No. 1e-88;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism-"Homo sapiens"
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                                                                                                                                                                                                                                                                                                        AI128289.1 GI:3596803
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                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
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/lab.host="Dilog (ampicillin resistant)"
/clone_lib="Soares_fetal_liver_spleen_lNFLS_S1"
/note="Organ: Liver and Spleen; Vector: p7773D (Pharmacia)
with a modified polylinker; Site_1: Pac I; Site_2: Ecc RI;
This is a subtracted version of the original Soares fetal
''... along ithy are original Soares fetal
                                  EST 05-FEB-1998
                                                                                                                                                                                Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
I (bases I to 550)
Hillier, L. Allen, M. Bowles, L., Dubuque, T., Geisel, G., Jost, S., Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., Washde, Y., Wylle, T., Waterston, R. and Wilson, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 CCTGAGAAGACATTCACC-ACCACCCCAGGAGGTGGCTGCTGGAATCTGGACGTCCCAA 119
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                                       zi93e05.s1 Soares_fetal_liver_spleen_lNFLS_S1 Homo sapiens CDNA clone IMAGE:448352 3' similar to gb:X59357 60S RIBOSOWAL PROTEIN L22 (HUMAN);, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                            Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
TMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40ml3 #wd. ET from Amersham
High quality sequence stop: 515.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Gaps
                                                                                                                                                                                                                                                                                                                                                       Washington University School of Mcdicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 550;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /sex="male"
/dev_stage="20 week-post conception fetus"
                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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Pred. No. 1.9e-89;
0; Mismatches 0;
                                  mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:1352609"
/db_xref="taxon:9606"
                                550 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone-"IMAGE:448352"
                                                                                                                 AA777897.1 GI:2836890
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1larity 99.7%;
Conservative
                                                                                                                                                   Homo sapiens (human)
Homo sapiens
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Matches 342; Conserv
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RESULT 7
AA777897/c
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/Organism-
//wol_type="mrnA" and papers and 
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                                           240 GAAAATAATACTTTCCCGCAAAAAGAGAGAGAGTGGACGTCACAGATTTGATCCATTCTGTTG 299
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1 (Dases 1 to 448)

NCI-GGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
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This clone is available royalty-free through LLNL; contact the
This Consortium (info@image.llnl.gov) for further information.
Insert Length: 655 Std Error: 0.00
Seq primer: -40ml3 fwd. Er from Amersham
High quality sequence stop: 443.
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DEFINITION
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AUTHORS
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//dlone_lib-*Soares_NSF_F8_9W_OT_PA_P_S1"
//dlone_lib-*Soares_NSF_F8_9W_OT_PA_P_S1"
//dlone_lib-*Soares_NSF_F8_9W_OT_PA_P_S1"
//dlone_filed polylinker; Site_l: Not I: Site_2: Eco RI;
Equal amounts of plasmid DNA from five normalized
Equal amounts of plasmid DNA from five normalized
Ilbraries were mixed, and ss circles were made in vitro.
Following HAP purification, this DNA was used as tracer in
a subtractive hybridization reaction. The driver was
PCR-amplified CDNAs from pools of 5,000 clones made from
the same 5 libraries. The pools consisted of the following
libraries and clonelDs: Soares Nb2HP pool 1:
145032-147335, 147720-148103, 148872-149255, 15002 -
150407, 151176-15237 Soares Nb2HP8-9W pool 1:
758280-756583, 772104-774407 Soares NbHPA pool 1:
304776-306311, 320136-32232, 326280-326663 Soares NbHCT
pool 1: 723720-726407, 739080-740999 Subtraction by Bento
Soares and M. Fatima Bonaldo."
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                                                                     ATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAGCCATCATTGAAG 240
                                                                                                                                                                                241 AAAATAATTCTTTCCCGCAAAAAGAGAAGTGGACGTCACAGATTTGATCCATTCTGTTGT 300
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NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: cgapbs-remail.nih.gov
This clone is available royalty-free through LLNL; contact the
This clone is available royalty-free through LLNL; contact the
TMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1083 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 451.

Location/Qualiflers
1. 523
                                                                                                                                                                                                                                                                                                                                                                                                       A1800597 5.23 bp mRNA linear EST 19-DEC-1 wwg12405.x1 Soares_NSF_F8-9W_OT_LAP_E.31 Homo sapiens cDNA clone IMAGE: 2364873 3' similar to SW:INL4 HUMAN 014641 EARLY PLACENTA INSULIN-LIKE PEPTIDE PRECURSOR ; mRNA sequence.
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                                                                                                                                                                                                                                              GAAGTAATTTGTGACGATGGAACTTCAGTTAAATTATGTACA 342
                                                                                                                                                                                                                                                                         142 GAAGTAATTTGTGAGGATGGAACTTCAGTTAAATTATGTACA 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2364873"
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Homo sapiens
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Matches 336; Conservative
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1 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG 60

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/ corganism="Homo sapiens"

/mol_type="mRNA"

/do_txref="taxon:9606"

/dlone="Laxon:9606"

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                                                                                                                                                                                                                                                                                                                                                              180 CATTCCTAATTTGTCACCAGAGCTGAAGAAACCACTGTCTGAAGGGCAGCCATCATTGAA 239
                                                                                                                                                                                                       388 CCTGAGAAGACATTCACCACCACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA 329
                                                                                                                                                                                                                                                                                                        GAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATC-AGAATT 179
GCAGAGCTGAGGGGATGTGGTCACCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG 389
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: cgapbs-remail.nth.gov
Tissue Procurement: CLOWIECH Laboratories, Inc.
cDNA Library Preparation: CLOWIECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. CONSOrtium (LLNL.)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.G.E. Consortium/LLNL at:
http://image.lln.gov
Richer at: LCMIGST row: d column: 12
High quality sequence stop: 624.
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Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BG623890.1 GI:13675261
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BG623890
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                     61 CCTGAGAAGACATTCACCACCACCCCAGGAGGGTGGCTGCTGGAATCTGGACGTCCCAAA 120
                                                                                                                                   121 GAAATGGTGTCAACCTCCAACAACAAGATGGACAAGCCTTAGGTACGACATCAGAATTC 180
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
1 (bases 1 to 701)
Katze,M.G., Bumgarner,R., Korth,M., Feldman,R., Amjadi,M. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 University of Washington
Box 358070, Seattle, WA 98195-8070, USA
Trel: 206 732 6156
Fax: 206 732 6055
Email: ted@locke.hs.washington.edu
Similar to GenBank entry BC026254 BC026254 Homo sapiens,
similar to GenBank entry Clone MGC:22499 IMAGE:4770395, mRNA,
complete cds. 4/2007
Plate: MMFL0017 row: E column: 12.
   1 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCATG
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MMPL0017_E12 MMPL Macaca mulatta cDNA, mRNA sequence.
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Expressed sequence tags from Rhesus macaque placenta
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Location/Qualifiers
1. 701
/organism-"Macaca mulatta"
/mol_type-"mRNA"
/db_xref="taxon:9544"
/sex-"male"
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/clone_lib="MMPL"
/note="Organ: placenta"
145 c 156 g 1:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished
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                                                                    1 GCAGAGCTGAGGGGATGTGGTCCCCGATTTGGAAAACACTTGCTGTCATATTGCCCCCATG 60
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1 (bases 1 to 684)

1 (bases 1 to 684)

1 (bases 1 to 684)
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Box 358070, Seattle, WA 98195-8070, USA
Tel: 206 732 6156
Fax: 206 732 6055
Email: ted@locke.hs.washington.edu
Similar to GenBank entry BC026554 BC026254 Homo sapiens,
insulin-like 4 (placenta), clone MGC:22499 IMAGE:4770395, mRNA,
complete cds. 4/2003
Plate: MMPL0003 row: F_column: 01.
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 Length 948;
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MMPL0003_F01 MMPL Macaca mulatta cDNA, mRNA seguence.
CB549181
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   DB 10;
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               Pred. No. 1e-84;
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                                    0; Mismatches
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/mol_type-"mRNA"
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   Score 315.8;
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147 c 150 g 1
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Macaca mulatta
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 92.3%;
98.8%;
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Best Local Similarity 93.9%;
Matches 321; Conservative
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Contact: Holzman T
Query Match 92.3'
Best Local Similarity 98.8'
Matches 339; Conservative
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